G20.5 76-77 Roads and Streets

Volume LXXVI, January-December, 1933

GENERAL INDEX

Α.	search Now Under Way for Low Cost	Federal Appropriation-Apportionment of
American Association of State Highway	Road Work 338	\$400,000,000 Road Fund Among States 263
Officials, Resolutions Adopted 400	Cement-Bound Macadam Pavement, Mod- ern	Federal Appropriation for Roads, Editorial
American Road Builders' Association Convention, Memoranda on 93	Clearing and G.ubbing with Logging	Federal Appropriation, Rules and Regula-
Election of Officers	Power Unit	tions for Highway Work Under 261 Federal Public Works Program—Regional
Convention 449	Coarse Aggregate, Preventing Segregation	Advisors Appointed
Plans for Chicago Meeting 440 Apperican Society of Municipal Engineers	of	Road Construction, Editorial 271
-Officers and Activities 48	Coarse Aggregate Type Plant-Mix 137 Code of Fair Competition for Construc-	Federal Rules Governing the Use of Ma- chinery on Road Construction, Edi-
Associated Equipment Distributors—Offi- cers and Activities 48	tion Industry 327	torial 307
Associated General Contractors of America—Officers and Activities 49	Code of Fair Competion for General Con- tractors	Fill Settlement—Report, Forms and Diagrams
Associations and Societies-Lists of Offi-	Code—Sand and Gravel Code and the Contractor, Editorial	G
cers and Activities 48 Asphalt—	Concrete, Cotton Fibre Pads for Curing 364	Gas Consumption and Truck Mileage 255 Gasoline Tax Diversion
Characteristics and Use of Cutback Asphalts	Concrete—Determining Yield by Density Method	9, 29, 71, 83, 86, 105, 114, 122, 372, 450 Gasoline Taxes—Legal Encroachments on
Emulsified, Township Builds Low Cost	Concrete Curing—New Method of Wetting Earth Cover on Concrete Widening	Industry
Road with 204 Evaluation of Emulsified Asphalts for	Strip 258	Gasoline Taxes and Motor Vehicle Registrations 252
Road Building Purposes 150 Mixed-in Place Construction Job in	Concrete Pavement — Device for Forcing Displaced Slabs into Position 394	Gasoline Taxes in 1932 - Rates and
Michigan 313	Concrete Paving Projects, Twin Pavers Make Progress Records on 213	Amounts by States
As halt Institute-Officers and Activities. 50 Au aras that Accompany Certain Earth-	Concrete Roads—Engineering and Grading	Metamorphic Rocks
quakes, Editorial 123	Policies for Single Track Roads 21 Concrete Roads—New Finishing and Joint	Formations to Road Material Surveys 301
Automobile Travel, Purposes of 230	Installing Methods on Indiana Road, 366	Goggles as an Aid to Safety in Highway Construction
В	Contractors Will be Affected by Currency Inflation, Editorial	Construction 187 Grade Reduction, Potential Saving from 404 Grading—Heavy Work on Reconstructing
Batching Plant Operation 97 Bidding—Showing How a Very Low Bid	Construction—Selling to Public Through a United Industry	an Important California Highway 321
Does Not Always Mean a Heavy Loss 324	Construction League of the United States	Grading—Rough Grading on a Rocky Road 156
Biluminous Paver Spreads and Finishes Course Aggregate Type Plant-Mix 137	-Number Organizations, Officers and Activities	Highway and Building Conference-Reso-
Bituminous Pavers' Industrial Association	Corrugated Pipe in Highway Drainage 31	lutions Adopted
Bituminous Plant - Mixed Surface of	Costs and Expenditures for Highway Con- struction in Various States and Coun-	Traffic 142
Graded Aggregate Type 115	ties in 1932 and 1933 10 County Highway Maintenance, Equipment	Highway and Rail Development During Ten Years Compared, Editorial 92
Black Top Construction in Western Ne- braska	and Plant for 233	Highway Research Board-Officers and
Black Top Job Completed in Quick Time, 108 Book Reviews	County Road and Bridge Expenditures Estimated for 1933	Activities
Borings-A Practical Method for Taking	County Roads-Construction and Mainte-	Job Stabilizer
and Preserving Soil Cores	nance of Roads in Harris County, Texas	I
Brick Layer	County and Township Roads124, 164, 197, 233, 272, 309, 338, 373, 414, 452	lckes, Federal Administrator of Public Works, Says "It Is Up to the Cities". 355
Brick Pavement Construction, Method of	Currency Inflation Will Affect Contractors,	Indebtedness - Public and Private In-
Removing Surplus Filler in	Editorial	debtedness in Their Relation to the Depression, Editorial
Brick Pavements, Resurfacing 1, 2	Depression—Public and Private Indebted- ness in Their Relation to the Depres-	Indices of Business, Illogical, Editorial 91
Bridge Moving—Two Three-Span Bridges	sion, Editorial 232	Industry, Automatic Versus Planned Con- trol of, Editorial 270
Moved in Six Hours 85 Bridges—	Distributor News	International Association of Public Works Officials—Officers and Activities 48
Construction Methods on French King	Dragline Operation—a Tip 28	Inventors, Some Hints for, Editorial 195
Bridge, Mohawk Trail, Massa- chusetts	Drinking Fountains — Simple Cardinal Principles for Roadside Drinking	Investment in Roads, Streets and Motor Vehicles
Design and Construction of Small	Fountains 259	Iowa Counties, Secondary Road Construc-
Span Suspension Bridges 109 Erection Methods for 280 Ft Deck	Earthquake and Automobile Fatalities	Johnson, Dean A. N., Honored 100
Truss Span Highway - Railway Bridge	Compared, Editorial	Joint Installing Methods on Indiana Con- crete Road
Methods of Reconstructing Old Steel	Meaning of Highways in 101	L
Bridges	Economic Illiterates, Editorial 123 Economic Problem of the 30-Hour Week,	Labor — Special Provisions for Highway Projects Under Public Works Bill 256
Fibre Used as Flooring 344 New Toll Bridges Proposed at Grand	Economic Stability and Public Works 427	Labor—Working Hours of Truck Drivers, 289 Landscaping Public Roads
Island, N. Y 155	Economics of Grade Reduction 404	Legislation, Federal Aid 6
Ninety-five-Year-Old Covered Bridge, 298 Operations of County Bridge Crew in	Einstein, Newton Plus, Not Versus, Edi- torial	Legislation—Recent State Legislation Regarding Highways
Indiana 416	Editorials	Legislation—Summary of Motor Vehicle Legislation in 1933
Survey of the Toll Bridge Field 146 Troy-Menands Bridge Has 341 ft.	Electron Emission from Suns and Planets 367	Lighting Sodium Vapor Highway Light 296
Movable Span	Electron-Shell Theory, Editorial 337 Elevated Highway-Jersey City-Newark	Low Cost Asphalt Surface for Gravel Base 452 Low Cost Bituminous Surfaces, Improving 147
Remodeled Bridge 432	High Level Viaduct Pavement 430	Low Cost County Roads 197
Why Many Toll Bridges Should be Built Now	Elevated Highways — 160 Mile Super- Highway Proposed for Chicago 433	Low Cost Road Types—Laboratory Traffic Tests
Widening Old Timber Bridges Under Traffic	Elevated Highway on West Side of New York City	Low Cost Roads — Graded Aggregate Types Discussed
Brisbane, Arthur, Open Letter by H. P.	Elevating Grader Operation—Economics	Low Cost Road Work - Important Re-
Gillette, Regarding Railways and Highways	in Highway Construction	search Now Under Way in Cement Bound Macadam 338
Business Cycles and Credit "Jags," Edi- torial	Highway Appropriation Will Be Spent 408 Employment—Number of Persons Em-	Low Cost Rural Road System of Penn.
Business Indices, Illogical, Editorial 91	ployed on State Highway Systems in	sylvania 373 M
Buses, Queer Street for, Editorial 372 Buses, Statistics of, for 1932 127	Federal Forests and Parks	Machinery-Man Power and the Machine in Highway Work 268
C	Transport as a Factor	Maintenance, Equipment and Plant for., 233 Maintenance Practice on State Highways. 24
Calcium Chloride - Its Use to Secure	Engineer - The County Engineer and	Material Surveys and Geological Forma-
Roadway Stability	County Leadership	tions 301 Materials and Equipment, New
crete Pavements	1933 Road Show	170, 209, 245, 281, 317, 351, 387, 421, 459
Low-Cost Roads 359	Equipment and Plant for County Highway Maintenance	Materials, Subcontracting in Procurement
Calcium Chloride Used for Ice Control 438 California Highway Reconstruction 321	Equipment Used in the Widening of Three-Mile Section of Roosevelt Road,	of
Car-Mile Costs, Road Up-Keep and 199	30 Miles West of Chicago 285	Mileage of State Roads Surfaced in 1932, 292
Cement—Should "Cut-Throat" Prices for Cement be Demanded? Editorial 196	Explosives in Highway Fill Settlement Work in Rhode Island	Mixed-in-Place Construction Job in Michigan
Cement — Will Portland Cement Prices Rise? Editorial	Farm-to-Market Road Problem, How	Mixed-in-Place Construction Job in Vor-
Cement-Why Is It Sold F. O. B. Destina-	Pennsylvania Is Solving	Money How to Restore "Velocity of
tion?	Farm-In-Aarkel Rand Program Suggested	
Cement-Bound Macadam-Important Re-	Farmers' Interest in Adequate Highways, 223	Capita Money for 20 Years
		Money—Relation of Money Wages, to Per Capita Money for 40 Years. 148
	4	

BETROIT MICH.

Motor Vehicle Industry in 1932—Statistics 127 "Mud"—A Song	Rail and Highway Development During Ten Years Compared, Editorial 9		
N.R.A.—	Railroad-Highway Transportation Con- troversy—A Brief	o in 1932 and 1933 1	
Code of Fair Competition for Con- struction Industry	Railway Regulation, Henry Ford on, Edi- torial 23	State Highway Maintenance Practice	
Code of Fair Competition for General Contractors 329 Federal Rules Controlling \$400,000,000	Railway Revenues — Their Enormous Growth in Face of Highway Compe-	Adopted by	
Road Construction, Editorial 271 Federal Rules Governing Use of Ma-	tition During the Decade Ending in 1929, Editorial	States — Apportionment of \$400,000,000 Road Fund	
chinery on Road Construction, Editorial	Coming Battle Between, Editorial 4	Steel — Cromancil — A New Alloy for Bridges	
Public Works Sections of National Recovery Act	Railways and Highways— A Brief on the Transportation Controversy 6	Steel Founders' Society of America—Offi- cers and Activities. 5	
Rules and Regulations for Highway Work Under \$400,000,000 Federal Appropriation 261	Interest of Railways in Highway Con- struction . 19:	tures 39	
Appropriation	Legislative Encroachment on Oil and Automotive Industries 190	Mile 26	
Special Provisions for Highway Projects Under Public Works Bill 256	Motor Trucks, Milk and the Consumer 67 Real Cause of Railway Financial Dis-	Suspension Bridges, Design and Construc- tion of Small Span 10	
National Association of Builders Ex- changes—Officers and Activities 48	Will it Pay to Convert a Branch Line	Turmac-A Mixed in Place Construction	
National Bituminous Pavers' Industrial Association Formed	into a Highway? Editorial 337 Railway Contribution to State High-	Job in Vermont	
National County Roads Planning Com- mission—Officers and Activities 49	way Mileage Insignificant	Taxes—An Alternative to Diversion for	
National Crushed Stone Association—Offi- cers and Activities	Development of	Unemployment Relief, Editorial 12 Taxes — Gasoline in 1932 — Rates and	
cers and Activities	Registration of Motor Vehicles by States in 1932	Amounts by States	
tion—Officers and Activities 50 National Recovery Act, Public Works Sec-	Relief Expenses, Road Jobs Reduced 167 Relief Men on County Road Work 255		
National Transportation Committee—Who	Relief Work—for What Kind of Public Works Is the Latent Demand Great-	Diversion of Gasoline Taxes, Editorial 37: Taxes on Motor Vehicles and Motor Ve-	
Newton Plus, Not Versus, Einstein, Edi-	est? Editorial	hicle Users in 1932 12 Taxes—Railway and Highway 7	
Numbers for Highways—Uniform System	Research-Successful Research by a Tyro. 431 Research, Twelve Man-made, Obstruc-	Taxes in Wisconsin and Expenditures for Highway Purposes	
in Minnesota	tions to	Technocrat Berates "The Price System," Editorial	
Encroachments	Boundaries of Science	Traffic Control in Wayne County, Michigan	
Construction of	Road Builders News	Traffic Survey in Connecticut, 1931 208 Traffic Tests—Laboratory Tests for Low-	
Patching Old Concrete Road	Safety in Highway Construction, Promot- ing	Cost Roads	
Pavers—Twin Pavers Make Progress Rec-	Sand-Lime Brick Association—Officers and Activities	Truck Association Executives of America —Officers and Activities	
ords on Concrete Paving Projects 213 Periodicals, 24,000 Scientific, Editorial 372	School Teachers Would "Fire" Road Workers, Editorial 90	Truck Regulation and Completion with Railways	
Plant Mix — Bituminous Paver Spreads and Finishes Course Aggregate Type, 137	Often Economic Failures, Editorial., 451	Gabriel and Houlder Dams	
Portland Cement Association—Officers and Activities	Scientists, the Egotism of, Editorial 163 Secondary Road Construction Policies in	Unemployment, Public Works for Relief	
Power Shovel Equipped With a Giant Hammer	Iowa Counties	of	
Editorial	Sevision, Z. E., Retires as Head of Wyom- ing State Highway Department 203	Diversion of Gasoline Taxes for, Edi- torial	
Rise? Editorial	Sheets, Frank T., Made Consulting Engi- neer for Portland Cement Association 315	Unemployment Relief in Union County, New Jersey	
torial	Signals—Traffic-Actuated Control System as Adopted in Montreal 369	U. S. Bureau of Public Roads in Review— Progress, Organization, Activities 5	
Years of, Editorial	Signs, Comparative Visibility of 358 Signs—Highway Map 168	Up-Keep of Roads and Car-Mile Costs 199	
ment Sold to It	Signs for Highways, Editorial	Viaduct Pavement—Jersey City—Newark, 430	
	Driving	Wages—Relation of Money Wages to Per Capita Money for 90 Years 148	
Works Is the Latent Demand Greatest? Editorial	Signs—Save British Traffic Signs 456 Single Track Concrete Roads, Engineering	Wages and Prices, the Future of, Edi- torial	
Says Secretary Ickes	and Grading Policies	1922 to 1932	
Stability	on Mountain Highways of California, 346 Snow Removal and Winter Road Mainte-	Welding Aids in Weight Reduction of Re-	
	nance in Ontario	modeled Bridge 432 West Side Elevated Highway, New York	
Boards Appointed to Pass on—Personnel by States	Highways 219 Societies and Associations—Lists of Officers and Activities	Widening Three-Mile Section of Roosevelt	
pointed for Federal Program 300 Public Works for Relief of Unemployment 145	Society of Automotive Engineers—Offi- cers and Activities	Road, 30 Miles West of Chicago 285 Winter Maintenance and Ice Control on	
Public Works Section of National Re-	Speed—Relation to Highway Capacity 28 Stabilization (see Calcium Chloride)	Highways 438 Winter Road Maintenance in Ontario 382 Wisconsin—Merger of Five Counties in	
Purdue Road School 28	State Advisory Boards Appointed to Pass on Public Works Projects—Personnel	One	
Racketeering, Editorial 163	by States 290	Solved 280	
AUTHOR'S INDEX			
В	н	N	
Brannon Luke 85 1	Harrison, J. L	Normann, O. K	
Brown, Victor J	Hogentogler, C. A., Jr	Ogden, M. M	
Clemmer, H. F	mmel, Harry D 187	Peabody, L. E	
Clemmer, H. F. 184, 264 Conner, C. N. 199 Conzelman, J. H. 147 Crandell, John S. 158	ohnson, Pyke 58	Runner, D. G	
	Kirschbaum, L	Saunders, W. L. 382 Schlesinger, Geo. F. 1	
E	L	Schon, Pierre 441 Schuyler, P. K. 146 Seanor, Harry E. 67 Smith, C. E. 272	
Establic, A. A	ackey, J. M	Smith, C. E	
Fisher, Charles T 156	M M	Spann. William M	
Frankland, F. H 109 3	facDonald, Thomas H	Thee, T. C	
Gillette, Halbert P	Iartin, George E. 414 Iavitz, J W. 130 IcDermott, J. R. 259	Thee. T. C	
194, 195, 196, 231, 232, 270, 271, 297, 3 337, 361, 367, 379, 399, 419, 421, 450, 451, 3	lehren, Edward J	Vaughn, E. J	
	lelick, C. A	Walling, J. A. 457 Watkins, W. I. 228 Wiley, C. 76	
Gray, Chester H			
	i,i		
	*		

